PEC PO 21 JUN 2006
TENT COOPERATION TREAT

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference 2003UR002  |   |  | FOR FURTHER<br>ACTION   | see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. |   |  |  |
|--|---|--|---|---|---|--|--|
| International application No.<br>PCT/US03/32256  |   |  | International filing date (day/mont 10 October 2003 (10.10.2003)  | h/year)   | (Earliest) Priority Date (day/month/year)<br>16 January 2003 (16.01.2003) |  |  |
| Applicant EXXONMOBIL UPSTREAM RESEARCH COMPANY   |   |  |   |   |   |  |  |
| This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.   |   |  |   |   |   |  |  |
| This international search report consists of a total of sheets.  It is also accompanied by a copy of each prior art document cited in this report.   |   |  |   |   |   |  |  |
| <ol> <li>Basis of the Report         <ul> <li>a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ul> </li> </ol> |   |  |   |   |   |  |  |
| b  | the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: |  |   |   |   |  |  |
| 1  | cont  | contained in the international application in written form.  |   |   |   |  |  |
|  | filed   | filed together with the international application in computer readable form.   |   |   |   |  |  |
|  | furn  | furnished subsequently to this Authority in written form.  |   |   |   |  |  |
|  | furni   | furnished subsequently to this Authority in computer readable form.  |   |   |   |  |  |
|  |   |  | quently furnished written sequence l<br>filed has been furnished. | isting does   | s not go beyond the disclosure in the                                     |  |  |
|  |   | tatement that the inform furnished.  | nation recorded in computer readabl                               | e form is i   | identical to the written sequence listing has                             |  |  |
| 2.   | Cert  | ain claims were found  | unsearchable (See Box I).   |   |   |  |  |
| 3.   |   | nity of invention is lacking (See Box II).   |   |   |   |  |  |
| 4.   |   | egard to the title,  |   |   |   |  |  |
|  | =   | the text is approved as submitted by the applicant.  |   |   |   |  |  |
|  | the t   | ext has been established   | d by this Authority to read as follow                             | s:  |   |  |  |
| 5. With regard to the abstract,  |   |  |   |   |   |  |  |
|  | the t   | ext is approved as subn  | nitted by the applicant.  |   |   |  |  |
|  | the t   | the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. |   |   |   |  |  |
| 6.   | The figure of   | the drawings to be pu  | blished with the abstract is Figure N                             | Io. <u>4</u>  |   |  |  |
|  |   | iggested by the applicat   |   |   | None of the figures   |  |  |
|  | because the applicant failed  |  | to suggest a figure.  |   |   |  |  |
|  | =   |  | naracterizes the invention.                                       |   |   |  |  |
| 1  |   |  |   |   |   |  |  |

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/32256

| A. CLASSIFICATION OF SUBJECT MATTER   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| IPC(7) : $G01V 1/38$  |  |  |  |  |  |  |  |
| US CL : 367/15, 324/365 According to International Patent Classification (IPC) or to both national classification and IPC   |  |  |  |  |  |  |  |
| B. FIELDS SEARCHED  |  |  |  |  |  |  |  |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 367/15  |  |  |  |  |  |  |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched   |  |  |  |  |  |  |  |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  |  |  |  |  |  |  |  |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT  |  |  |  |  |  |  |  |
| Category * Citation of document, with indication, where ap  | propriate, of the relevant passages Relevant to claim No.  |  |  |  |  |  |  |
| X, E US 6,678,207 B2 (DUREN) 13 January 2004 (13.01   | 2004), see column 4, lines 8-44.   |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |
| Further documents are listed in the continuation of Box C.  | See patent family annex.   |  |  |  |  |  |  |
| Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |  |  |  |  |  |  |
| "E" earlier application or patent published on or after the international filing date   | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |  |  |  |  |  |  |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |  |  |  |  |  |  |
| "P" document published prior to the international filing date but later than the priority date claimed  | "&" document member of the same patent family  |  |  |  |  |  |  |
| Date of the actual completion of the international search   | Date of mailing of the international search report  17 JUN 2004  |  |  |  |  |  |  |
| 21 April 2004 (21.04.2004)  | Authorized officer now m Chapman   |  |  |  |  |  |  |
| Name and mailing address of the ISA/US  Mail Stop PCT, Atm: ISA/US  |  |  |  |  |  |  |  |
| Commissioner for Patents  | N. Le  |  |  |  |  |  |  |
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